

CLAIMS:

1. A golf ball material comprising a mixture which is composed of:

100 parts by weight of a resinous component consisting essentially of

a base resin having (a) an olefin-unsaturated carboxylic acid binary random copolymer or a metal ion-neutralized olefin-unsaturated carboxylic acid binary random copolymer or both, blended with (b) an olefin-unsaturated carboxylic acid-unsaturated carboxylate ternary random copolymer or a metal ion-neutralized olefin-unsaturated carboxylic acid-unsaturated carboxylate ternary random copolymer or both, in a weight ratio of 100:0 to 25:75, and

(e) a non-ionomer thermoplastic elastomer, said base resin and said elastomer being blended in a weight ratio of 100:0 to 50:50;

(c) 5 to 80 parts by weight of a fatty acid or fatty acid derivative or both, having a molecular weight of 280 to 1,500; and

(d) 0.1 to 10 parts by weight of a basic inorganic metal compound capable of neutralizing acidic groups left unneutralized in the base resin and component (c).

2. The golf ball material of claim 1, wherein the mixture has a melt flow rate of 0.5 to 20 dg/min.

3. The golf ball material of claim 1, wherein at least 50 mol% of the acid groups in the mixture are neutralized with metal ions.

4. The golf ball material of claim 1, wherein the metal ions are comprised of at least one type of transition metal ion and at least one type of alkali metal or alkaline earth metal ion.

5. The golf ball material of claim 4, wherein the transition metal ions and the alkali metal or alkaline earth metal ions are in a molar ratio of 10:90 to 90:10.

6. The golf ball material of claim 1, wherein the metal ion-neutralized random copolymer in said base resin includes a zinc ion-neutralized ionomer resin.

7. The golf ball material of claim 1, wherein the total content of random copolymers and the total content of metal ion-neutralized random copolymers in said base resin are in a weight ratio of 0:100 to 60:40.

8. The golf ball material of claim 1, wherein component (c) is at least one member selected from the group consisting of stearic acid, behenic acid, arachidic acid, lignoceric acid and derivatives thereof.

9. The golf ball material of claim 1, wherein component (d) is calcium hydroxide.

10. The golf ball material of claim 1, wherein component (e) is at least one member selected from the group consisting of an olefin elastomer, styrene elastomer, polyester elastomer, urethane elastomer, and polyamide elastomer.

11. A golf ball comprising a molded part of the golf ball material according to any one of claims 1 to 10.

12. The golf ball of claim 11, wherein the molded part has a Shore D hardness of 50 to 75.

13. The golf ball of claim 11 which is a multi-piece solid golf ball comprising a core, a cover inner layer and a cover outer layer, wherein the cover inner layer is a molded part

of the golf ball material according to any one of claims 1 to 10.

090615 1001
TOP SECRET